



NORTH DAKOTA STATE DEPARTMENT OF HEALTH
Air Pollution Control Program
State Capitol
Bismarck, North Dakota 58501

ANNUAL EMISSION INVENTORY REPORT
FORM AP 301
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING
Calendar Year 1974



1. Name of Firm or Organization: Minnkota Power Cooperative, Inc.
2. Plant Location: Center, North Dakota (Milton R. Young Station)
3. Permit to Operate Number: 730010
4. Source Unit Number (from Permit to Operate): 1
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>1.7 M tons</u> (Specify Units) Delivered Cost of fuel <u>\$1.66/ton avg.</u> (\$/Unit Quantity)	Type <u>No. 2 oil</u> Quantity per year <u>535,000 gal.</u> (Specify Units) Delivered Cost of fuel <u>\$.282/gal. avg.</u> (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. Min. Avg.	9.7% 5.2% 7.45%	
PERCENT SULFUR Max. Min. Avg.	.9% .35% .7%	.3%
BTU PER UNIT Max. Min. Avg.	6739 BTU/lb 6397 BTU/lb 6590 BTU/lb	140,000 BTU/gal.

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	2820	12,750.0
Sulfur Dioxide	5264	23,800.0
Nitrogen Oxides	1540 est.	6,209.0
Other (Specify)		

Basis For Quantities Listed Above:

Particulates = 30% of the total fly ash; fly ash = 2.5% of the coal

SO₂ = .7% of coal x 2

NO_x = 700 ppm, used from previous tests assumed to be correct.
Based upon 2.2 million # of exhaust gas/hr. max.

10. Name of Person Submitting Report (Print or Type) Gary G. Kapity

Title Environmental Engineer Phone (701)775-4641

I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.

(Signed)

Lloyd V. Hillier Date 1/29/75